

## Abstract

The present invention relates to a process for preparing an antidiabetic natural compound and pharmaceutical use of said compound. An antidiabetic Sequoyitol powder is obtained by extracting a medicinal plant, such as *Taxus spp*, etc., with a solvent, and separating by diphase extraction and chromatography, and it is further purified to obtain its main component, a natural single compound having significant antidiabetic effects. The structure of said compound is confirmed by spectra, chemical synthesis and X-ray single-crystal diffraction pattern, to be 5-O-methyl-*myo*-inositol (Sequoyitol). Sequoyitol has a significant antidiabetic activity, is able to significantly alleviate hyperglycemia of diabetes, inhibit the decomposition of hepatic glycogen and the absorption of glucose, reduce blood fat level, improve the metabolism of free radicals, and protect  $\beta$  cells of pancreatic island; and has a very low toxicity.

## (12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织  
国际局(43) 国际公布日:  
2004年5月13日(13.05.2004)

PCT

(10) 国际公布号:  
WO 2004/039759 A1

(51) 国际分类号: C07C 43/196, 41/34, A61P 3/10

(21) 国际申请号: PCT/CN2002/000728

(22) 国际申请日: 2002年10月17日(17.10.2002)

(25) 申请语言: 中文

(26) 公布语言: 中文

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(81) 指定国(国家): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

(84) 指定国(地区): ARIPO专利(GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI专利(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

根据细则4.17的声明:

— 发明人资格(细则4.17(iv))仅对美国

本国际公布:

— 包括国际检索报告。

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(54) Title: A NATURAL COMPOUND USEFUL FOR TREATING DIABETES, ITS PREPARATION AND USE

(54) 发明名称: 一种防治糖尿病的天然化合物及其制备方法与药物用途

(57) Abstract: This invention relates to a natural compound, 5-O-methyl-myo-inositol(sequoyitol), the isolation process, the pharmaceutical composition and the use thereof. Said compound is isolated from Taxus Species and can be used to treat diabetes.

(57) 摘要

本发明涉及 5-O-甲基-myo-肌醇(西曲依醇), 其分离方法, 药物组合物以及用途。所述化合物是从红豆杉中分离出来的天然化合物, 可以用于治疗糖尿病。